

Superior Boiler Pellet Fuel Hot Water Boiler for Hydronic Heating - EKO S -



Pellet Fired Industrial Boiler

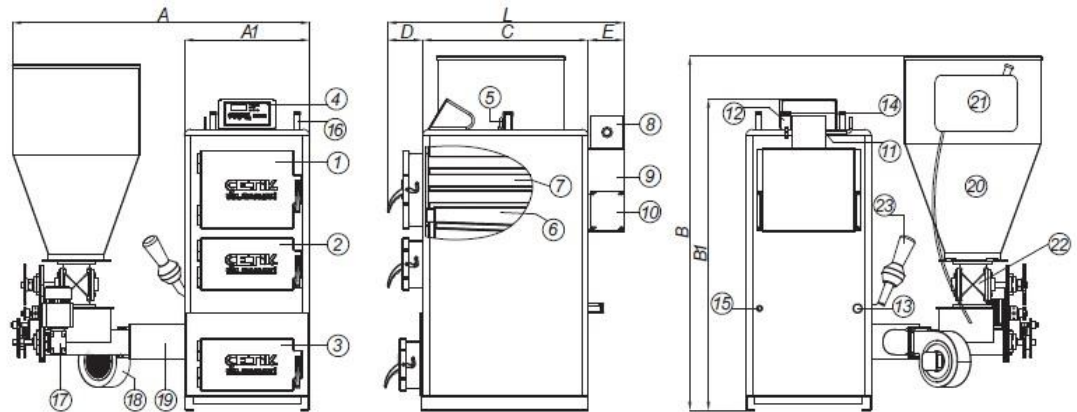
- High efficiency – 88-94% efficient
- Low smoke -stack emission – compliant with strict European standards
- Heavy duty, large capacity hopper with safety spacing between hopper and boiler
- Unique burn-back suppression system on pallet feeder to prevent pellets burning in hopper

- Robust industrial screw-feed auger with heavy duty industrial TEFC motor and gear box
- Easy to operate digital control panel. Controls include water temperature setting, water temperature display, fan speed control, and fuel feed control
- Built-in lifting hook located on top of boiler for ease of installation and handling.
- Large access doors for easy cleaning
- All access doors are cast iron with camlock handles
- All seals are constructed with ceramic materials – no asbestos used in boiler construction.
- Large and easily emptied ash pan
- Industrial ballrace TEFC fan in cast aluminium housing
- 4 pass heat exchanger for maximum heat transfer from fire to water
- 3 bar operation pressure – factory tested to 5 bars on all units

EFFICIENCY TEST RESULTS – CONDUCTED BY TUV

Nominal Heat Output	34,80kW
% CO ₂	Min. 12,68 / Max 10,27
% O ₂	Min. 7,87 / Max 10,35
CO	Min. 177 / Max. 414 mg/m ³ (max.3000 mg/m ³)
Chimney Temp	186C
% Efficiency	90.00

- 1 Cleaning Door
- 2 Fuel Feeding Door
- 3 Ash Pan Door
- 4 Digital Control Panel
- 5 Lifting Hook
- 6 4 Pass Heat Exchanger
- 7 Gas Passage
- 8 Chimney
- 9 Fume Chest
- 10 Fume Chest Cleaning Cover
- 11 Manuel Chimney Tab
- 12 Boiler Outlet
- 13 Boiler Return
- 14 Vent
- 15 Make Up Water
- 16 Safety Ventil Inlet
- 17 Reducer
- 18 Fan
- 19 Spiral
- 20 Bunker
- 21 Wax Safety System
- 22 Gear Safety System
- 23 Automatic Ignition



TECHNICAL SIZES												
MODEL	A	B	B1	C	D	E	L	BOILER		SAFETY		CHIMNEY DIAMETER
	mm	mm	mm	mm	mm	mm	mm	OUTLET inch (")	RETURN inch (")	OUTLET inch (")	RETURN inch (")	mm
EKO S-20	580	1230	1470	540	170	660	1370	1	1	3/4	3/4	130
EKO S-30	630	1380	1620	590	180	780	1550	1	1	3/4	3/4	130
EKO S-40	630	1440	1670	695	180	780	1650	1 1/4	1 1/4	3/4	3/4	150
EKO S-60	730	1500	1770	895	180	855	1950	1 1/2	1 1/2	3/4	3/4	180
EKO S-90	785	1770	2010	1045	200	800	2045	2	2	1 1/2	1 1/2	200

TECHNICAL FEATURES						
		EKO S-20	EKO S-30	EKO S-40	EKO S-60	EKO S-90
HEATING CAPACITY (Coal 7500 kcal/kg)	kW	23	34	46	69	104
	kcal/h	20,000	30,000	40,000	60,000	90,000
WATER CAPACITY	liter	30	35	45	65	110
WEIGHT	kg	300	400	450	500	900
WORKING PRESSURE (max)	bar	3	3	3	3	3
TEST PRESSURE	bar	5	5	5	5	5
MAX. BOILER OUTLET WATER TEMPERATURE	°C	90	90	90	90	90
BUNKER FUEL CAPACITY	kg	100	100	125	175	225
ASHTRAY CAPACITY	liter	11	22	26	29	70
NOMINAL VOLTAGE	V	220	220	220	220	220
WORKING FREQUENCY	Hz	50	50	50	50	50
REDUCER MOTOR POWER	W	250	250	250	250	250
FAN POWER	W	180	180	180	180	180
FUEL TYPE	Hazelnut Coal, Pellet, Prina, Fruit Stones					

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